



US005935832A

United States Patent [19]

Nakane et al.

[11] Patent Number: **5,935,832**[45] Date of Patent: **Aug. 10, 1999**[54] **FARNESYL DIPHOSPHATE SYNTHASE**

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[21] Appl. No.: **08/898,560**

[22] Filed: **Jul. 22, 1997**

[30] **Foreign Application Priority Data**

Jul. 24, 1996 [JP] Japan 8-213211

[51] Int. Cl.⁶ **C12N 9/10; C12N 1/20; C12N 15/00; C07H 21/04**

[52] U.S. Cl. **435/193; 435/252.3; 435/254.11; 435/325; 435/320.1; 435/410; 536/23.2; 935/22**

[58] Field of Search **435/193, 320.1, 435/252.3, 254.11, 325, 410; 536/23.2; 935/22**

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[57] **ABSTRACT**

A mutant prenyl diphosphate synthase capable of synthesizing prenyl diphosphates, shorter than those synthesized by the original enzyme, by modifying the amino acid sequence in and upstream of the aspartic acid-rich domain DDXX (XX)D (X denotes any amino acid, and XX in the parentheses may not be present) present in region II of the prenyl diphosphate synthase.

16 Claims, 3 Drawing Sheets

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